

1 ABSTRACT OF THE DISCLOSURE

2 A process for the fabrication of a speaker
3 enclosure for a set of drivers utilizing a series of
4 templates including a base template having an external
5 circumferential edge corresponding to the preselected
6 external shape of the enclosure, a preselected number of
7 guide holes placed within said circumferential edge, a
8 plurality of internal circumferential edges creating mounts
9 for each driver and corresponding port. The process
10 includes the step of calculating the volumes of cavities to
11 enhance the sound reproduction ability of the drivers.
12 Additional templates including the external circumferential
13 edge and guide hole placement of the base template and
14 further including internal circumferential edges to
15 complete the fabrication of the cavity volume further
16 incorporating internal supports within said cavity volumes
17 placed whereby said supports do not inhibit the mounting of
18 said drivers into said cavities. Assembling the layers of
19 sheet material cut along the external and internal edges of
20 each template into a prototype of the enclosure and testing
21 said prototype to measure the sound reproduction
22 capability. Adjusting selected portions of internal
23 circumferential edges to enhance the sound reproduction
24 ability of the drivers mounted into the enclosure to create
25 a master set of templates. Using the master set of
26 templates to fabricate the layers, assembling the layers in
27 the preselected order with guide holes aligned, applying
28 glue to at least one side of each layer, inserting
29 reinforcing rods having threaded ends into each guide hole
30 and installing and tightening a nut onto each threaded end
31 of said reinforcing rods to hold the layers in the
32 preselected external shape without deforming the layers or
33 distorting the sound reproduction ability of the enclosure.
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